

AKG ACOUSTICS

Discreet Acoustics

- Compact Series
- Modular Series



AKG DISCREET ACOUSTICS

PROFESSIONAL SOLUTIONS FOR INSTALLED SOUND

For more than 50 years, AKG Acoustics has been the leading manufacturer of microphones, headphones and accessories, as well as OEM and telecommunication products. Our logo with the three cardioids stands for technical innovation, supreme quality, and excellent worldwide reputation.

Discreet Acoustics is synonymous to highest requirements in the installed sound area. Key prerequisites for successful sound reinforcement products include an especially rugged design (long life and high fail safety), unfailingly high acoustic quality for optimum speech

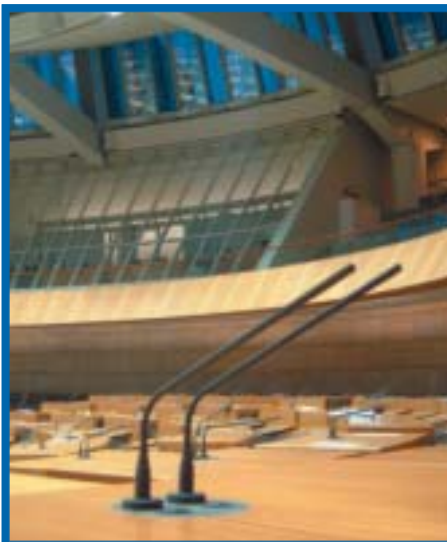
reproduction, excellent electromagnetic compatibility and a wide range of accessories that will help you cope with the most difficult installation requirements. Most sound systems must be practically invisible, easy to operate, and attractively styled. AKG meets each of these requirements – and brilliantly at that.

The Discreet Acoustics Modular Series features a flexible modular system of capsules and installation modules that can be combined any way you please. Every situation has its individual needs that can be easily fulfilled with the Discreet Acoustics Modular Series. And there are numerous

new improvements and features that you will not want to do without!

The Discreet Acoustics Compact Series is of the latest addition to the Discreet Acoustics line. Based on the Modular Series, the most frequently used combinations were pre-assembled into non-modular units.

No matter whether you choose the Modular Series or the Compact Series, AKG Discreet Acoustics products, created with the experience of a worldwide leading audio manufacturer, will help you find the optimum solution for any application.



Düsseldorfer Landtag (Building of the Düsseldorf Land Parliament, Germany)

Media technology is a crucial issue not only for economic experts, but also for politicians. The *Düsseldorfer Landtag* building was equipped by Siemens Building Technologies with state-of-the-art sound systems and innovative media technology. For AKG, this project was a huge challenge. Within a very short time, over 500 microphones had to be manufactured individually and integrated into existing components. "We implemented the project within six months. This was made possible thanks to the perfect cooperation of all partners on the project team. Customer satisfaction is excellent," says Siemens project manager Jürgen Schaaff.



Lecture hall of the Law School at the University of Pennsylvania

The GN 30 E gooseneck and the CK 31 capsule were selected as the ideal combination, since the cardioid polar pattern of each CK 31 capsule ensures the ideal pickup angle for two students (total capacity: 72 students). All lines right up to the capsule are fully shielded to provide optimum immunity to electromagnetic interferences (e.g., from mobile phones). The hall was preserved in its original Victorian style, with every two students sharing one permanently installed AKG microphone.



Norwegian Criminal Police Headquarters

The hall of the Norwegian Police Headquarters has 160 seats, 84 of which are equipped with GN 30 goosenecks + CK 31 capsules mounted in an H 500 fixture. All microphones are controlled by eleven AS 8 automatic mixers.

DISCREET ACOUSTICS COMPACT SERIES

THE QUICK, AFFORDABLE SOLUTION FOR ANY SOUND SYSTEM

With its new Discreet Acoustics Compact Series (DAC), AKG offers a cost efficient alternative for installations where a lean budget has top priority. This is why the DAC Series goosenecks come with only one flexible section, a rigid connection between gooseneck and capsule, and a 3-pin standard XLR connector for joining the gooseneck to the cable.

The Discreet Acoustics Compact Series offers a user-friendly system that fulfils its basic functions just perfectly. While an excellent price-performance ratio was

achieved by focusing on essential features, no compromise was made with regard to the sound of the capsules.

Each of these capsules provides the outstanding, "legendary" AKG sound that enjoys worldwide popularity and accounts for the company's success. Acoustic excellence made in Austria by AKG!

You can choose between goosenecks 30 or 50 cm (12 or 20 in.) long, with either a cardioid or hypercardioid polar pattern, and a cardioid hanging module. For the tough

requirements of everyday usage, the DAC Series features rugged all-metal parts and is designed as a true plug-and-play solution. Quick setup and takedown as well as permanent installations all are possible.

The new Discreet Acoustics Compact Series is the unique alternative for applications where budget, not modularity, is a major consideration. Moreover, the Compact Series can be combined with the Modular Series, so that modules with additional features can be used as well wherever they are actually needed.



CGN 521 E



CGN 321 E



Compact: The integrated capsule

A special feature of the new Discreet Acoustics Compact Series is that the gooseneck and microphone capsule form an inseparable unit. The rugged metal front grill is joined permanently to the gooseneck, the contacts inside are soldered. This protects the delicate condenser capsule against mechanical stress and electromagnetic interference, and ensures maximum reliability and excellent audio.

Compact: The basis

The gooseneck foot features an XLR connector with gold-plated contacts, making connecting and mounting incredibly easy. The metal case also houses the electronic components of the microphone. The extra-strong flexible section lets you position the microphone precisely as required.



CGN 321 (521) E

30 OR 50 CM (12 OR 20 IN.) CONDENSER GOOSENECK

- Cardioid polar pattern
- 30 or 50 cm (12 or 20 in.) long
- 125° pickup angle
- Especially suited for inexperienced talkers
- Connects easily via XLR connector

The cardioid polar pattern is the most popular because its uses are almost limitless. The 125° pickup angle is especially suited for inexperienced or very “vivacious” talkers who often fail to talk directly into the microphone.

The choice of two different lengths and the flexible joint ensure optimum alignment of the gooseneck to any talker position. Numerous options for installation are available, such as mounting on a stand or tabletop, while optional accessories include a lockable mounting fixture.



ST 1 + SA 60

Easy setup: anything goes

The wide range of accessories ensures optimum installation or placing of the Discreet Acoustics Compact Series goosenecks, regardless of architectural requirements.

Tabletop installation with a high level of structure-borne noise? Don't worry; the installation modules feature a shock mount made of a special rubber mix to reduce structure-borne noise to a minimum. Optional theft-proof installation modules are also available.



ST 45 + SA 60

Fixing permanently on a thick marble slab that must not be pierced? No problem: just three shallow holes will do to fasten the mount, and the gooseneck microphone won't budge.

Permanent installation impossible? No big deal, a heavy base plate will keep the gooseneck securely in place.

And what about uneven surfaces? Easy. Use the tripod table stand.



H 500



H 600



PS 3 F-Lock



CGN 323 (523) E

30 OR 50 CM (12 OR 20 IN.) CONDENSER GOOSENECK

- Hypercardioid polar pattern
- 30 or 50 cm (12 or 20 in.) long
- 95° pickup angle
- For acoustically difficult environments
- Connects easily via XLR connector

The hypercardioid polar pattern with its narrow 95° pickup angle is suited best for situations where noise typically occurs from all sides (particularly in worship centers), where people talk into the microphone from a greater distance, or where several talkers are grouped side by side.

Two different lengths are available. The flexible joint ensures optimum alignment of the gooseneck to any talker position. Several options are available for installation, i.e., stand, tabletop installation, and lockable.



Hypercardioid



Cardioid

Choosing polar patterns

Selecting the correct polar pattern for installed sound is difficult since it depends on a variety of factors.

Of course the acoustics of the room play a key role. For highly reverberant rooms such as worship centers, a hypercardioid polar pattern will be the best choice to avoid high levels of unwanted noise.

Correct placement of the loudspeakers is also essential. If the speakers project right at the capsule, a hypercardioid will be your best bet.

The most difficult task, however, is trying to judge how the talkers will behave. For talkers who are inexperienced or move around a lot, be sure to choose a cardioid polar pattern for reliable pickup; talkers at a greater distance from the mic will be served best by a hypercardioid.



CHM 21

CONDENSER HANGING MICROPHONE

- Cardioid polar pattern
- 10 m (33 ft.) cable
- 125° pickup angle
- Especially suited for choir recordings
- Integrated spring steel clamp for optimum alignment

The new Discreet Acoustics Compact Series Condenser Hanging Microphone provides both ease of use and a high level of functionality. There is hardly any more affordable and simpler solution for recording choirs at worship centers.

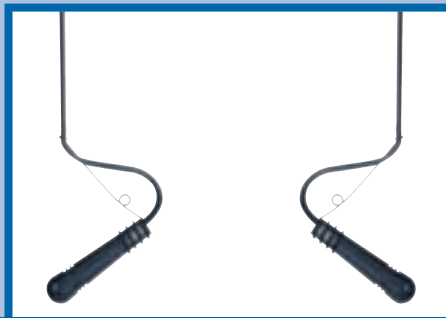
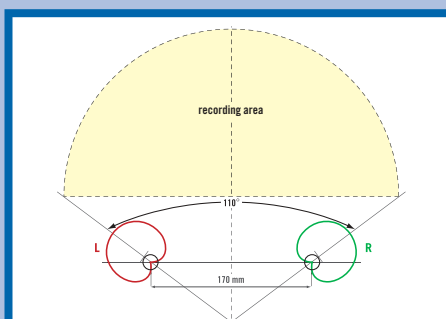
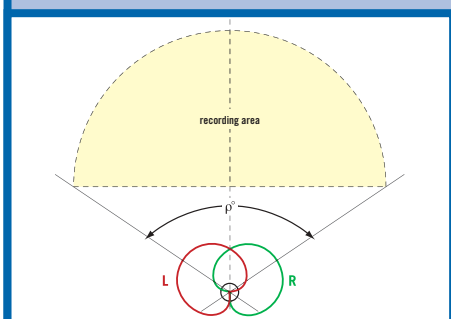
Suspended from the ceiling or a beam, the hanging microphone is aligned and then fixed in the correct position. Now use the spring steel clamp to adjust the correct angle, and off you go!

XY stereo recording

Using two CHM 21 hanging microphones in an XY configuration (coincident pair) is a good way to make stereo recordings, particularly of choirs. However, sound source locations are defined only by intensity differences. Adjusting the angle between the microphones determines the width and depth of the stereo image (see figure below).

ORTF stereo recording

Developed by the French Broadcasting Authority, this technique differs from the XY technique by recording not only intensity differences, but also delay differences. The capsules are aligned at an angle of precisely 110° and 170 mm / 6.7 in. apart (see illustration below).



COMPACT SERIES: INSTALLATION

WIDE RANGE OF ACCESSORIES FOR MULTITUDE OF MOUNTING OPTIONS



Security lock

PS 3 F-Lock

Classic lockable mounting accessory, for easy, material-friendly installation.
Required mounting hole: 17 mm (0.7 in.)



ST 45 + SA 60

For easiest installation and takedown of mobile sound systems, the ST 45 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. The massive base plate and shock-absorbing rubber feet eliminate footfall noise.



H 600

The H 600 offers optimum attenuation of structure-borne noise, high flexibility, and a theft-proof lock.
Required mounting hole: 53 mm (2.1 in.)



H 500

The H 500 is the most cost efficient solution for easy installation and takedown of sound systems.
Required mounting hole: 50 mm (2 in.)



ST 1 + SA 60

The ST 1 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. It is especially useful for uneven surfaces where the ST 45 base plate cannot be used.



DISCREET ACOUSTICS MODULAR SERIES

FULLY MODULAR SYSTEM FOR MAXIMUM REQUIREMENTS

The Discreet Acoustics Modular Series from AKG Acoustics is being used worldwide and has proven its worth for many years. It brilliantly fulfils the three key requirements that are essential for sound system applications.

Modularity: Depending on the specific purpose, "special wishes" can often be fulfilled only by modular systems. The AKG Discreet Acoustics Modular Series offers a choice of five capsule modules with different polar patterns and frequency responses. A wide range of goose-necks and installation modules is also available. Besides, there are special-pur-

pose modules for applications that are not covered by any other products available. They can be used as wireless or lavalier microphones as well as for single-user applications.

Reliability: A wide range of features minimizes the risk of operating errors, material fatigue, or signal dropouts. The LED ring and self-cleaning gold-plated contacts for the threaded connections are standard, as are anti-twist cables (HM 1000) and a switchable bass rolloff filter.

Low profile: The extremely compact design and matte finish underscore the

inconspicuous appearance of the Discreet Acoustics Modular Series. The low-profile installation modules ensure quick setup and takedown of all versions of the Modular Series.

The excellent response and extremely good intelligibility make the Discreet Acoustics Modular Series the first choice whenever quality and reliability have top priority.

Small wonder that decision makers all over the world appreciate AKG as a professional partner.



System standby



Mic On



Off

Added reliability: LED ring

All installation modules (except the LM 3) feature an LED ring. A world first, it uses special circuitry to operate off standard phantom power. The LED ring has the following modes:

System standby:

In this mode (factory default) the LED ring glows dimly to indicate that the system has been wired correctly and phantom power is on. The operator will know at a glance whether the hardware has been installed correctly. There is no need to test each microphone.

Mic On:

When powered from an external supply, the LED ring can be configured such that it will only light (brightly) when the microphone is on. (All installation modules except for E versions and LM 3).

Off:

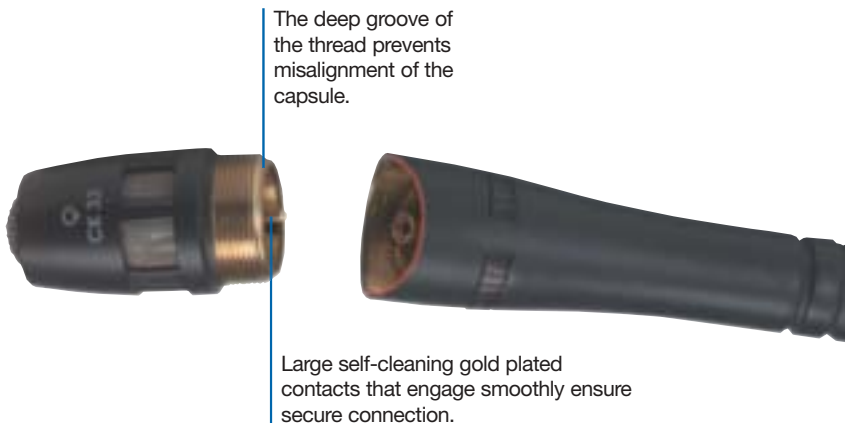
If none of the above functions is desired, the LED ring can be deactivated. In this mode, it is practically invisible (applies to all installation modules).



Added reliability: Tested for stability

A high quality gooseneck bends precisely into the desired shape and is resistant to inadvertent readjustment. This stability of shape depends entirely on consistent resilience of the springs inside the gooseneck.

Therefore, all Discreet Acoustics Modular Series Gooseneck Modules are subjected to a rigorous quality test during which they are bent into extreme shapes and must keep their shape until bent again. Any gooseneck that does not pass this test is rejected.



The deep groove of the thread prevents misalignment of the capsule.

Large self-cleaning gold plated contacts that engage smoothly ensure secure connection.

Added reliability: Maximum contact area

The size of the contact area between the microphone capsule and the gooseneck is of crucial importance for the reliability of the entire installation. Instead of the failure-prone conventional point contacts, all Discreet Acoustics Modular Series products use large, self-cleaning gold plated contacts that engage in groove-and-tongue fashion.

In addition, a hard, rugged thread stabilizes the joint. The extremely deep groove of the thread prevents misalignment and ensures a long useful life of all Discreet Acoustics Modular Series products even if they are used in installations that are frequently reconfigured, or in mobile systems.

Added reliability: Protected against faulty operation

The phantom power adapter contains two jumpers that let you activate a 200 Hz bass rolloff and the LED ring ON/OFF mode.

Since the jumpers are hidden inside the adapter case they cannot be realigned unintentionally.



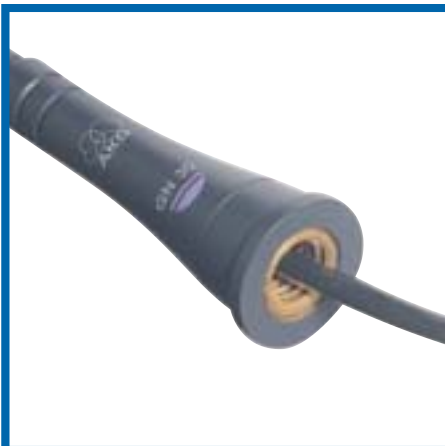
GN 15 (30, 50)

15, 30, OR 50 CM (6, 12, OR 20 IN.) SCREW-ON GOOSENECK

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated switchable bass rolloff
- Mini XLR connector or unterminated cable ends

For permanent screw-on installation, AKG offers goosenecks in various lengths: GN 15: approx. 15 cm (6 in.); GN 30: approx. 30 cm (12 in.); GN 50: approx. 50 cm (20 in.). Except for the GN 30 oc with unterminated cable ends, all come with a DPA in-line XLR phantom power adapter with integrated 200 Hz bass rolloff and LED

ON/OFF jumper. The DPA connects to any standard mixer input with 9 to 52 V power supply. The mini XLR connector will thread through any hole from 11 mm (0.44 in.) in diameter. This eliminates the need for large holes or awkward unsoldering and resoldering of the much larger phantom power adapter during installation.



Standard accessory: Phantom power adapter

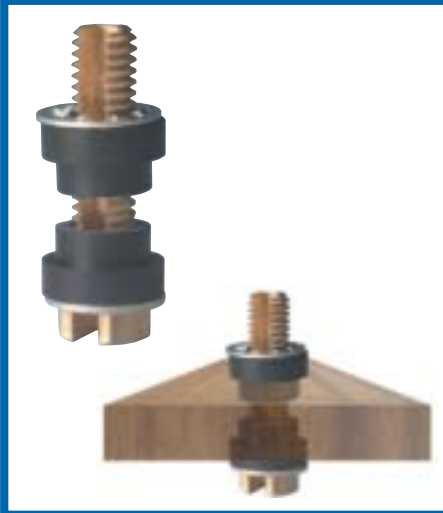
The external phantom power adapter of the GN series makes setting up the goosenecks much easier, since a small hole will suffice for threading through a mini XLR connector. Having disconnected the cable, the integrated bass cut can be set quite easily inside the phantom power adapter.

The phantom power adapter will operate off any available phantom power supply from 9 to 52 V, powering both the condenser capsule and the LED ring.



GN SERIES: INSTALLATION

EXAMPLES OF INSTALLING GN SERIES GOOSENECKS



Standard installation hardware

For permanent installation, a 3/8" screw is mounted from below. Two supplied rubber buffers reduce structure-borne noise. The screw requires a 14 mm (0.6 in.) opening.



MF-DA Mounting flange

The MF-DA mounting flange is the Discreet Acoustics Modular solution for situations where it is impractical to fix a gooseneck from below. The rugged, all-metal MF-DA can be screwed on permanently and allows you to route the cable above or below the tabletop.

This installation method is very popular for altars and lecterns.



ST 45 Table stand

The ST 45 table stand is the Discreet Acoustics Modular solution for mobile applications or installations where supporting surfaces must not be changed. GN Series goosenecks screw directly onto the ST 45.

Rugged construction and shock absorbing rubber feet ensure optimum stability and reduce footfall noise.



GN 15 (30, 50) E

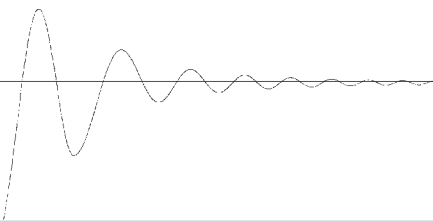
15, 30, OR 50 CM (6, 12, OR 20 IN.) GOOSENECK WITH INTEGRATED XLR CONNECTOR

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated, switchable bass cut
- Integrated XLR connector

All E-Series modules come with an integrated connector for quick setup and takedown.

The goosenecks are available in various lengths. GN 15 E: 23.5 cm (9.2 in.); GN 30 E: 38 cm (15 in.); GN 50 E: 57.2 cm (22.3 in.). Of course the series also has an integrated 200 Hz bass rolloff filter and LED ON/OFF jumper.

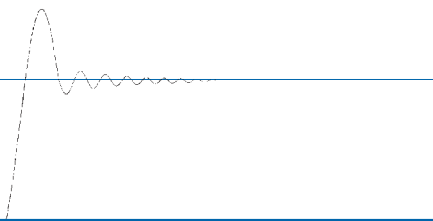
Fig. 1



Optimum suppression of structure-borne noise

An essential feature of the installation hardware described below is the attenuation of structure-borne noise that prevents the transmission of unwanted noise (footfall etc.). The amount of attenuation is determined by the material mix of the rubber shock mount. Modular Series installation modules use a mixture that is extremely efficient at frequencies below 200 Hz (e.g., knocking noise).

Fig. 2



Unlike standard rubber mixtures (fig. 1) that respond to vibrations very slowly, the special AKG rubber mixture (fig. 2) absorbs vibrations practically immediately. This prevents successive shocks from adding up.

This rubber mixture is used in the H 600 and H 500.



GN 15 (30, 50) ES

15, 30, OR 50 CM (6, 12, OR 20 IN.) GOOSENECK WITH INTEGRATED XLR CONNECTOR AND SWITCH

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated, switchable bass cut
- Integrated XLR connector
- Noiseless on/off switch

Gooseneck module for quick setup and takedown, with integrated noiseless on/off switch. The switch will default to “off” as the sound system is powered up and needs to be pressed to activate the microphone. An LED ring indicates whether the

microphone is on or off. The goosenecks are available in various lengths. GN 15 ES: 23.5 cm (9.2 in.); GN 30 ES: 38 cm (15 in.); GN 50 ES: 57.2 cm (22.3 in.). Of course the series also has an integrated 200 Hz bass rolloff filter and LED ON/OFF jumper.



GN E (ES) SERIES: INSTALLATION

EXAMPLES OF INSTALLING GN E AND GN ES SERIES GOOSENECKS



Security lock

PS 3 F-Lock

Classic lockable mounting accessory, for easy, material-friendly installation.
Required mounting hole: 17 mm (0.7 in.)



ST 45 + SA 60

For easiest installation and takedown of mobile sound systems, the ST 45 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. The massive base plate and shock-absorbing rubber feet eliminate footfall noise.



H 600

The H 600 offers optimum attenuation of structure-borne noise, high flexibility, and a theft-proof lock.
Required mounting hole: 53 mm (2.1 in.)



H 500

The H 500 is the most cost efficient solution for easy installation and takedown of sound systems.
Required mounting hole: 50 mm (2 in.)



ST 1 + SA 60

The ST 1 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. It is especially useful for uneven surfaces where the ST 45 base plate cannot be used.



GN 15 HT

DISCREET ACOUSTICS FOR WIRELESS USE

- Gooseneck for wireless microphone applications
- For use with five different capsule modules
- Rugged all-metal construction
- Compatible with WMS 400 and WMS 4000 wireless microphone systems

The GN 15 HT lets you convert an HT 4000 handheld transmitter into a mobile gooseneck microphone. This setup provides easily accessible controls and easy battery replacement. Thanks to the sensitive condenser capsules, working distances can be much greater than with dynamic wireless microphones.

The LED ring illuminates to indicate the transmitter is ON. The GN 15 HT can be

combined with all Discreet Acoustics Capsule Modules. Battery life is 15% less than stated for the HT due to the current drain of the LED ring.

The gooseneck is suited for any application where a sound system with wireless microphones need to be set up quickly, e.g., at press conferences, panel discussions, etc.



GN 15 HT + HT 4000 + CK 47 + ST 45 + SA 63

Wireless application

In combination with an AKG WMS 4000 wireless microphone system, the GN 15 HT makes setting up a wireless system for any type of use incredibly easy. The modular concept offers you a choice of five different capsules even for wireless systems.

See our Special Catalog for more information on AKG Wireless Products and Applications.

Download: www.ake.com/wmscatalog



SR 400



SR 4000



LM 3

UNIVERSAL LAVALIER MODULE

- Modular lavalier module
- For use with 3 different polar patterns
- H 31 microphone clamp for alignment in 90° increments

Only 3 cm (1.2 in.) long, the LM 3 will keep a low profile in every sound reinforcement situation. In conjunction with a CK 31 cardioid, CK 32 omnidirectional, or CK 33 hypercardioid Capsule Module, the LM 3 will do an excellent job even in the most difficult miking situations.

The standard version comes with a phan-

tom power adapter for hardwire systems, while the LM 3 L can be used with AKG WMS 4000 wireless systems.

The clamp on the LM 3 has been designed to hold the microphone in either a horizontal or vertical position so it can be clipped on the talker's clothes or on the stage decoration.



LM 3 – The universal module

The LM 3 module is a real jack-of-all-trades. Since you can use it with any of five different capsules, it provides a wide range of polar patterns and frequency responses. In conjunction with the alligator clip, the installation module can be aligned in 90° increments for standard lavalier and many other applications. It can also be used as a shotgun microphone (with CK 47) clipped to a stage curtain, as an ambience microphone (with CK 32) on a video camera, etc. The possibilities are almost limitless.

The LM 3 comes in a standard version with phantom power adapter for hardwire applications or with a mini XLR connector for use with bodypack transmitters. In this version, the LM 3 is fully compatible with AKG WMS 40, WMS 400 and WMS 4000 wireless systems.



PT 40 + SR 40 diversity



PT 400 + SR 400



PT 4000 + SR 4000

HM 1000

HANGING MODULE

- For use with five different capsule modules
- Integrated switchable LED ring
- Integrated bass rolloff filter

Using microphones flown from the ceiling to record music or speech in places of worship, conference rooms, or on theater stages is becoming more and more popular.

The HM 1000 comes with a 10 m (33 ft.) special cable that will not twist even if the temperature varies, and a spring steel hanging clamp for precise microphone alignment.



GN 155 Set

FLOOR STAND WITH INTEGRATED GOOSENECK

- Elegant floor stand
- Integrated LED ring
- For use with five different capsule modules
- Rugged all-metal construction

Elegant gooseneck module with heavy, shock mounted floor stand in matte gray finish for use with all Discreet Acoustics Capsule Modules. Integrated LED ring status indicator. Suited for stand-alone use on stage or in front of a lectern.

Two integrated flexible gooseneck sections allow optimum alignment with talkers of different heights or positions.

A supplied screw-on extension tube can be used to place the microphone higher for tall talkers. The supplied 10 m (33 ft.) cable with XLR phantom power adapter is long enough to reach the edge of most stages with no extension cable.

For use as a lectern microphone in worship centers, halls etc.



GN 30 (50) MINIJACK

GOOSENECK SET WITH MINIJACK FOR FAST SETUP AND TAKEDOWN

- Gooseneck with screw thread and mini jack
- Installation module with permanently soldered remote phantom power adapter
- Extra large LED ring
- Highly reliable contacts for capsule modules
- Integrated switchable bass cut

The GN Minijack System makes installing and taking down goosenecks even quicker than before. The HCS mounting flange is built into the table. The permanently soldered phantom power adapter can be fastened to the underside of the tabletop by means of a clamp. The entire wiring remains invisible. The goosenecks can be mounted and taken down quite easily as

required, while the integrated mini jack ensures perfect contact reliability.

The LED ring can be powered directly. Depending on the microphone status, it can be activated and deactivated by a logic circuit (e.g., the logic out on an AS 16 x 12 automatic mixer), showing clearly which of the microphones are active.



HCS + GN 30 Minijack + CK 31

The "turbo" among modular systems

The GN Minijack System is especially useful whenever goosenecks of different lengths must be interchanged quickly, or when theft cannot be prevented with standard locking systems. The goosenecks together with the capsules can be quickly taken to a safe place without having to alter the setup. All that remains on the table is an unobtrusive disk.

In addition, the GN Minijack Mount features a rubber element on the underside of the disk, which attenuates structure-borne noise. When the gooseneck is detached, the opening can be closed with the attached flap to prevent dirt or liquids from getting inside.



HCS + DPA



HCS + GN Minijack



HCS + GN Minijack, installed



GN 15 (30, 50) E 5PIN

30 OR 50 CM (12 OR 20 IN.) GOOSENECK WITH CONTROLLABLE LED RING

- Gooseneck with 5-pin XLR connector
- Extra large controllable LED ring
- Highly reliable contacts for capsule modules
- Integrated switchable bass cut

Similar to the GN E Modules, the GN E 5Pin Modules come with an integrated connector with phantom power adapter.

One special feature is the 5-pin XLR connector, which ensures that the extra-large LED ring can be activated and deactivated using a separate power supply, e.g., a Logic out from the AS 16 x 12 automatic

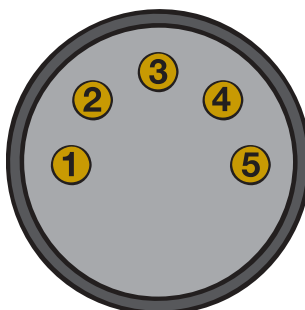
mixer. The LED ring is extra large for enhanced visibility. Of course the GN E 5Pin also has the same features as all Discreet Acoustics Modular Series installation modules, such as a gold-plated thread for screwing on the capsule, integrated switchable bass cut, and extremely strong joints that will withstand the toughest kind of usage.

5-pin connector

The 5-pin XLR connector allows the audio signal and the control voltage for the LED ring to be fed separately.

Connector pinout

- 1 – Audio ground
- 2 – LED ring +
- 3 – Audio inphase
- 4 – LED ring –
- 5 – Audio return



CK 31

DISCREET ACOUSTICS CARDIOID CAPSULE MODULE

- Cardioid polar pattern
- 125° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

The cardioid is the most popular polar pattern since it can be used almost universally. The 125° pickup angle is especially suited for inexperienced or very

“vivacious” talkers who often fail to talk directly into the microphone. The body is identical to that of the CK 32 and CK 33.



CK 32

DISCREET ACOUSTICS OMNIDIRECTIONAL CAPSULE MODULE

- Omnidirectional polar pattern
- 360° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

Due to its high sensitivity in all directions, the CK 32 omnidirectional Capsule is an excellent choice especially for lavalier

applications, but also for situations requiring ambience pickup. The body is identical to that of the CK 31 and CK 33.



CK 33

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

- Hypercardioid polar pattern
- 95° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

Due to the narrow 95° pickup angle, the hypercardioid polar pattern is a good choice for all situations when noise typically arrives from the sides (especially in places of wor-

ship), where people talk into the microphone from greater distances, or where several talkers are grouped side by side. The body is identical to that of the CK 31 and CK 32.



CK 47

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

- Hypercardioid polar pattern
- 80° pickup angle
- Screw-on Capsule Module
- Studio quality shotgun capsule

The CK 47 combines an 80° pickup angle, studio quality audio, and clean off-axis response. It is an ideal tool wherever studio-standard sound quality is required, or for inexperienced talkers.

The CK 47 comes complete with a W 70 windscreen.



CK 80

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

- Hypercardioid polar pattern
- 80° pickup angle
- Screw-on Capsule Module
- Shotgun capsule
- Speech optimized frequency response

An 80° pickup angle and speech optimized frequency response provide excellent intelligibility in acoustically critical environments. Its outstanding price/per-

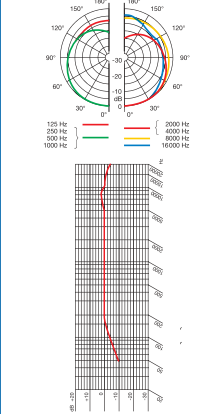
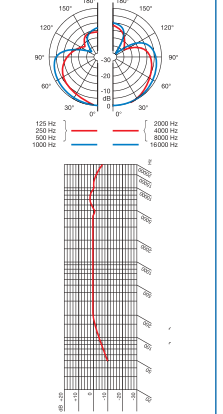
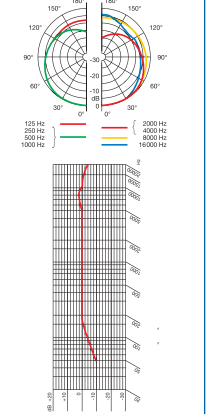
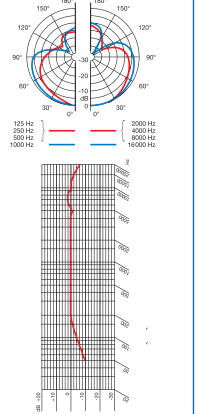
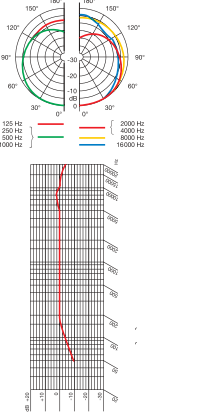
formance ratio is just as convincing as its sound and high gain before feedback.

Complete with W 80 windscreen.



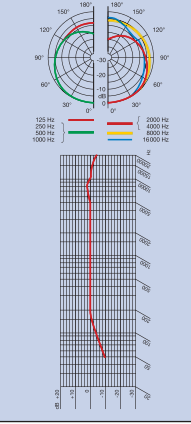
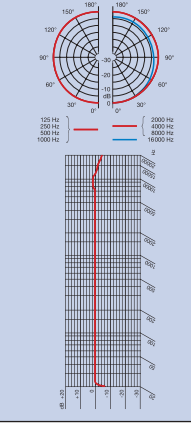
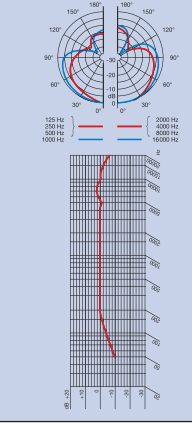
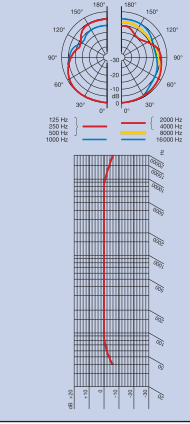
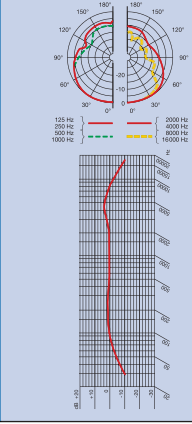
TECHNICAL SPECIFICATIONS

DISCREET ACOUSTICS AT A GLANCE

	CGN 321 E	CGN 323 E	CGN 521 E	CGN 523 E	CHM 21
Polar pattern:	Cardioid	Hypercardioid	Cardioid	Hypercardioid	Cardioid
Pickup angle:	125°	95°	125°	95°	125°
Frequency range:	70 to 18,000 Hz	50 to 19,000 Hz	70 to 18,000 Hz	50 to 19,000 Hz	70 to 18,000 Hz
Sensitivity:	18 mV/PA = -35 dBV*	12 mV/PA = -38 dBV*	18 mV/PA = -35 dBV*	12 mV/PA = -38 dBV*	18 mV/PA = -35 dBV*
Max. SPL for 1% THD:	125 dB	125 dB	125 dB	125 dB	125 dB
Equivalent noise level:	<21 dB-A	<21 dB-A	<21 dB-A	<21 dB-A	<21 dB-A
Signal/noise ratio (A-weighted):	>73 dB	>73 dB	>73 dB	>73 dB	>73 dB
Electrical impedance:	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms
Power requirement:	9 to 52 V phantom power to DIN 45596 (DPA adapter integrated)	9 to 52 V phantom power to DIN 45596 (DPA adapter integrated)	9 to 52 V phantom power to DIN 45596 (DPA adapter integrated)	9 to 52 V phantom power to DIN 45596 (DPA adapter integrated)	9 to 52 V phantom power to DIN 45596 (DPA adapter integrated)
Current consumption:	<3 mA	<3 mA	<3 mA	<3 mA	<3 mA
Connector:	3-pin male XLR	3-pin male XLR	3-pin male XLR	3-pin male XLR	3-pin male XLR
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size (capsule dia. x length):	13.5 x 380 mm (0.5 x 15 in.)	13.5 x 380 mm (0.5 x 15 in.)	13.5 x 580 mm (0.5 x 23 in.)	13.5 x 580 mm (0.5 x 23 in.)	13.5 x 55 mm (0.5 x 2.1 in.)
Net/shipping weight:	160/480 g (5.7/17 oz.)	160/480 g (5.7/17 oz.)	170/500 g (6/17.7 oz.)	170/500 g (6/17.7 oz.)	20/480 g (0.7/17 oz.)
Standard accessories:	windscreen	windscreen	windscreen	windscreen	spring clamp
Optional accessories:	B 18, PS3 F-Lock, H 500, H 600, SA 60, ST 1, ST 45	B 18, PS3 F-Lock, H 500, H 600, SA 60, ST 1, ST 45	B 18, PS3 F-Lock, H 500, H 600, SA 60, ST 1, ST 45	B 18, PS3 F-Lock, H 500, H 600, SA 60, ST 1, ST 45	B 18
Polar diagram/frequency response:					
Item No.:	2965Z0001	2965Z0002	2965Z0003	2965Z0004	2965Z0005

* re 1 V/PA

	LM 3	HM 1000	GN 15 HT	GN 155 HT Set
Bass rolloff filter:	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	—	250 Hz, -10 dB at 50 Hz
Electrical impedance:	≤600 ohms	≤600 ohms	—	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	—	≥2,000 ohms
Power requirement:	LM 3: 9 to 52 V phantom power to DIN/IEC; LM 3 L: 1.5 to 10 V	9 to 52 V phantom power to DIN/IEC	—	9 to 52 V phantom power to DIN/IEC
Current consumption:	<2 mA	<2 mA	—	<3 mA
Connector:	LM 3: 3-pin XLR; LM 3 L: 3-pin mini-XLR	3-pin male XLR	compatible to HT 4000	3-pin male XLR
Cable length:	1.5 m (5 ft.)	10 m (33 ft.)	—	10 m (33 ft.)
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size:	13.5 dia. x 27 mm (0.5 dia. x 1.1 in.)	13.5 dia. x 50 mm (0.5 dia. x 2.0 in.)	max. dia.: 34.5 mm (1.4 in.) length: 190 mm (7.6 in.)	180 x 1,490 mm (7.1 in. x 4 ft. 11 in.)
Net/shipping weight:	LM 3: 5/157 g (0.18/5.5 oz.) LM 3 L: 5/96 g (0.18/3.4 oz.)	400/600 g (14.1 oz./1.3 lbs.)	143/345 g (5/12.2 oz.)	3.6/4.8 kg (8/10.6 lbs.)
Standard accessories:	H 31 lavalier clamp	spring steel hanging clamp	—	ST 305, extension tube
Optional accessories:	LM 3: B 18, MK 9/10, N 62 E, N 66 E; LM 3 L: B 29 L, MPA III L	B 18, MK 9/10, N 62 E, N 66 E	Discreet Acoustics Modular Capsule Modules, SA 63, ST 45	B 18, MK 9/10, N 62 E, N 66 E
Item No.:	LM 3: 2765Z0015; LM 3 L: 2765Z0016	2765Z0010	2765Z0017	2765Z0018

	CK 31	CK 32	CK 33	CK 47	CK 80
Polar pattern:	Cardioid	Omnidirectional	Hypercardioid	Hypercardioid	Hypercardioid
Pickup angle:	125°	360°	95°	80°	80°
Frequency range:	50 to 20,000 Hz	20 to 20,000 Hz	50 to 20,000 Hz	20 to 20,000 Hz	60 to 15,000 Hz
Sensitivity:	20 mV/PA = -34 dBV*	14 mV/PA = -37 dBV*	20 mV/PA = -34 dBV*	16.5 mV/PA = -36 dBV*	30 mV/PA = -30 dBV*
Max. SPL for 1% THD:	125 dB	125 dB	125 dB	133 dB	125 dB
Equivalent noise level:	21 dB-A	20 dB-A	21 dB-A	20 dB-A	17 dB-A
Signal/noise ratio (A-weighted):	73 dB	74 dB	73 dB	74 dB	77 dB
Electrical impedance:	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms
Power requirement:	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **
Current consumption:	<3 mA	<3 mA	<3 mA	<3 mA	<3 mA
Connector:	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size (capsule dia. x length):	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 146 mm dia. (0.5 dia. x 5.7 in.)	13.5 x 123 mm (0.5 dia. x 4.8 in.)
Net/shipping weight:	5/88 g (0.17/3.1 oz.)	5/88 g (0.17/3.1 oz.)	5/88 g (0.17/3.1 oz.)	39/248 g (1.4/8.7 oz.)	15/208 g (0.5/7.3 oz.)
Standard accessories:	W 30 windscreen	W 30 windscreen	W 30 windscreen	W 70 windscreen	W 80 windscreen
Polar diagram/frequency response:					
Item No.:	2765Z0020	2765Z0021	2765Z0022	2765Z0023	2765Z0024

* re 1 V/PA

** requires DPA adapter, supplied with most installation modules

	GN Series	GN E Series	GN ES Series	GN Minijack Series	GN E 5Pin Series
Bass rolloff filter:	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz
Electrical impedance:	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms
Power requirement:	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power	9 to 52 V phantom power
Current consumption:	<3 mA	<3 mA	<3 mA	<3 mA	<3 mA
Connector:	3-pin male XLR; GN 30 OC: stripped and tinned leads	3-pin male XLR	3-pin male XLR	3-pin male XLR	3-pin male XLR
Cable length:	1.5 m (5 ft.)	—	—	—	—
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size:	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)
GN 15 .. / GN 30 .. / GN 50 ..	length: 160/305/500 mm (6.3/12/20 in.)	length: 235/380/572 mm (9/14.9/22.4 in.)	length: 258/403/598 mm (10.2/15.7/22.4 in.)	length: 305/500 mm (12/20 in.)	length: 235/380/572 mm (9/14.9/22.4 in.)
Net/shipping weight (GN 15 ..):	72/400 g (2.5/14.1 oz.)	112/396 g (3.9/13.9 oz.)	72/400 g (2.5/14.1 oz.)	110/522 g (3.9/18.4 oz.)	112/396 g (3.9/13.9 oz.)
Net/shipping weight (GN 30 ..):	110/522 g (3.9/18.4 oz.)	160/530 g (5.6/18.7 oz.)	110/522 g (3.9/18.4 oz.)	120/495 g (4.2/17.5 oz.)	160/530 g (5.6/18.7 oz.)
Net/shipping weight (GN 50 ..):	120/495 g (4.2/17.5 oz.)	160/535 g (5.6/18.8 oz.)	120/495 g (4.2/17.5 oz.)	120/495 g (4.2/17.5 oz.)	160/535 g (5.6/18.8 oz.)
Standard accessories:	DPA phantom power adapter (integrated), screw set with rubber bush, PS 3 F-lock	DPA phantom power adapter (integrated), screw set with rubber bush, PS 3 F-lock	DPA phantom power adapter	DPA phantom power adapter, HCS	—
Optional accessories:	B 18, MF-DA installation flange, MK 9/10, N 62 E, N 66 E, ST 45	B 18, H 500, H 600, MF-DA installation flange, MK 9/10, N 62 E, N 66 E,	B 18, H 500, H 600, MF-DA installation flange, MK 9/10, N 62 E, N 66 E, SA 60, ST 45	MK 9/10, N 62 E, N 66 E, SA 60, ST 45	H 600 shock mount, H 500 shock mount
Item No.:	GN 15: 2765Z0001 GN 30: 2765Z0003 GN 50: 2765Z0008	GN 15 E: 2765Z0002 GN 30 E: 2765Z0004 GN 50 E: 2765Z0009	GN 15 ES: 2765Z0011 GN 30 ES: 2765Z0012 GN 50 ES: 2765Z0013	GN 30 Minijack: 2765Z0036 GN 50 Minijack: 2765Z0037	GN 15 E 5Pin: 2765Z0039 GN 30 E 5Pin: 2765Z0040 GN 50 E 5Pin: 2765Z0041

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Lemböckgasse 21–25, P.O.B. 158, A-1230 Vienna/AUSTRIA, Tel: (+43 1) 86 654-0*, Fax: (+43 1) 86 654-7516, www.akg.com, e-mail: sales@akg.com
Hotline: (+43 676) 83200 888, hotline@akg.com

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AKG Acoustics GmbH

Bodenseestraße 228, D-81243 München/GERMANY, Tel: (+49 89) 87 16-0, Fax: (+49 89) 87 16-200, www.akg.com/de, e-mail: infode@akg.com
Hotline: (+49 89) 87 16-22 50, hotlinede@akg.com

AKG ACOUSTICS, U.S.

914 Airpark Center Drive, Nashville, TN 37217, U.S.A., Tel: (+1 615) 620-3800, Fax: (+1 615) 620-3875, www.akgusa.com, e-mail: akgusa@harman.com

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